

Mehdi Teimouri

Assistant Professor

Faculty of New Sciences and Technologies, University of Tehran

Personal Details

<i>Address</i>	Faculty of New Sciences and Technologies, University of Tehran, North Karegar Ave., Tehran, Iran
<i>Date of Birth</i>	8 th January 1981
<i>Language</i>	Persian (Native), English
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Education

<i>2005 – 2009</i>	<i>Ph.D. in Electrical Engineering</i> School of Electrical and Computer Engineering, University College of Engineering, University of Tehran, Tehran, Iran
<i>2003 – 2005</i>	<i>M.Sc. in Electrical Engineering-Communications Engineering</i> School of Electrical and Computer Engineering, University College of Engineering, University of Tehran, Tehran, Iran
<i>1999-2003</i>	<i>B.Sc. in Electrical Engineering-Communications Engineering</i> School of Electrical and Computer Engineering, University College of Engineering, University of Tehran, Tehran, Iran

Research Interests

- *Information Theory and Coding*
- *Modeling and Simulation*
- *Decision Support Systems*

Journal Papers

- M. Zarkeshzadeh, Z. Heshmati-Rafsanjani, H. Zare, and M. Teimouri, "An Optimized Ambulance Dispatching Method Based on complex Networks and Artificial Intelligence," Accepted for publication in *Journal of Information and Communication Technology*.
- M. Teimouri, F. Farzadfar, M. S. Alamdari, A. Hashemi-Meshkini, P. A. Alamdari, E. Rezaei-Darzi, M. Varmaghani, and A. Zeynalabedini, "Detecting Diseases in Medical Prescriptions Using Data Mining tools and Combining Techniques," Accepted for publication in *Iranian Journal of Pharmaceutical Research*.
- M. Teimouri and A. Hedayat, "Parameter Estimation of Turbo Code Encoder," *Advances in Electrical Engineering*, vol. 2014, p. 6, 2014.
- M. Teimouri, N. Rezaee, and A. Hedayat, "Concatenated Coded Modulation Techniques and Orthogonal Space-Time Block Codes in Presence of Fading Channel Estimation Errors," *IET Communications*, vol. 4, no. 2, p. 135-143, January 2010.
- M. Teimouri, A. Hedayat, and M. Shiva, "Concatenated Bit-Interleaved Coded Modulation and Orthogonal Space-Time Block Codes over Fading Channels," *IET Communications*, vol. 3, no. 8, p. 1354-1362, August 2009.
- M. Teimouri, N. Rezaee, and A. Hedayat, "Error Probability Bounds of Concatenated Channel Codes and Differential Space-Time Block Codes," *IEEE Signal Processing Letters*, vol. 16, no. 8, pp.663-666, August 2009.
- M. Teimouri and M. Shiva, "Concatenated Space-Time Block Coding with Trellis Coded Modulation over Fading Channels in the Absence of Channel State Information," *IEEE Transaction on Wireless Communications*, vol. 7, no. 12, Part 1, pp. 4854-4858, December 2008.
- M. Teimouri and N. Rezaee, "Rate Allocation for Serial Concatenated Convolutional Codes," *IET Communications*, vol. 1, no. 1, p. 79-85, February 2007.

Conference Papers

- M. S. Alamdari, M. Teimouri, F. Farzadfar, A. Hashemi-Meshkini,, “Disease Detection in Medical Prescriptions Using Data Mining Tools,” in *proc. ICCKE 2014*, 29-30 October 2014, Mashhad, Iran, pp. 159-164.
- M. Zarkeshzadeh, Z. Heshmati, H. Zare, and M. Teimouri, “A Hybrid Method for Reduction of Response Time in Ambulance Dispatch,” in *proc. 19th National CSI Computer Conference*, 4-6 March 2014, Tehran, Iran.
- M. Heydari and M. Teimouri, “Prediction of Liver Disorder with Combined Artificial Neural Network and Genetic Algorithm,” in *proc. 8th Symposium on Advances in Science & Technology*, 19 December 2013, Mashhad, Iran.
- A. A. Ghaemi and M. Teimouri, “Design and Implementation of Digital Receiver for Analysis and Recognition of Tactical Air Navigation Signals,” in *proc. The Sixth National Conference on Electronic Warfare*, 8-9 October 2013, Tehran, Iran.
- M. Heydari and M. Teimouri, “Evaluation of Data Mining Classification Techniques for Liver Disorder,” in *proc. The Sixth Iran Data Mining Conference*, 18-19 December 2012, Tehran, Iran.
- R. Zargarinejad, M. T. Hamidi Beheshti, and M. Teimouri, “Fluid Modeling for GPRS Uplink Traffic,” in *proc. SSST 2009*, 15-17 March 2009, Tullahoma, TN, USA, pp. 251-254.
- M. Rakhshanfar, M. Teimouri, and Zabihollah HassanShahi, “Implementation of Software Radio Based on PC and FPGA,” in *proc. ICCSC 2008*, 26-28 May 2008, Shanghai, China, pp. 633 - 637.
- M. Teimouri, E. Vahedi, A. Nasiri Avanaki, and Z. Hasan Shahi, “An Efficient Denoising Method for Color Images,” in *proc. ISSPA 2007*, 12-14 Feb. 2007, Sharjah, UAE, pp. 1-4.

Books

- Mehdi Teimouri, *Simulation and Analysis of Digital Communication Systems Using MATLAB*, KianRayaneh Publications, Tehran, Iran, 2011.
- Rahil Zargarinejad, Morteza Teherkhani, and Mehdi Teimouri (editor), *Electric Circuits 1*, Kian Publications, Tehran, Iran, 2013.
- Rahil Zargarinejad, Morteza Teherkhani, and Mehdi Teimouri (editor), *Electric Circuits 2*, Kian Publications, Tehran, Iran, 2013.

M.Sc. Theses

- “Disease Diagnosing Using Outpatient's Prescriptions,” M. Soudi Alamdari, University of Tehran, June 2014 [Co-Supervisor].
- “An Optimized Method for Reduction of Response Time in Ambulance Dispatch,” M. Zarkeshzadeh, University of Tehran, February 2014 [Advisor].
- “Optimizing of Type 2 Diabetes Budget Distribution Using the Burden of the Disease Model,” P. Mohamadpour, University of Tehran, February 2014 [Co-Supervisor].
- “Hypertension Risk Prediction in Iran,” E. Ebrahimi, University of Tehran, February 2014 [Co-Supervisor].
- “Predicting Risk of Type 2 Diabetes,” M. Heydari, University of Tehran, January 2014 [Co-Supervisor].

Review board of scientific journals

- IET Communications
- IEEE Transaction on Vehicular Technology
- IEEE Signal Processing Letters
- IEEE Transaction on Wireless Communications
- IEEE Transaction on Communications

Honors

- Ranked 1st Among M.Sc. students in School of Electrical and Computer Engineering, University College of Engineering, University of Tehran, Tehran, Iran, 2003-2005
- Ranked 22th Among 12,000 Participants in the Nationwide Electrical Engineering Entrance Exam for Graduate Studies (Communications Section), Iran, 2003

Academic Appointments

- Assistant Professor of Faculty of New Sciences and Technologies, University of Tehran, 2011-present

Teachings

- Signals and Systems (Fall 2014 - University of Tehran)
- Coding Theory (Fall 2014 - University of Tehran)
- Information Theory and Coding (Fall 2014 - University of Tehran)
- Application of Intelligent Systems in Medicine (Fall 2014 - University of Tehran)
- Biomedical Signal and Image Processing (Spring 2014 - University of Tehran)
- Random Processes (Spring 2014 - University of Tehran)
- Time Series Analysis and Forecasting (Fall 2013 - University of Tehran)
- Application of Intelligent Systems in Medicine (Fall 2013 - University of Tehran)
- Time Series Analysis and Forecasting (Spring 2013 - University of Tehran)
- Application of Intelligent Systems in Medicine (Fall 2012 - University of Tehran)
- Biomedical Signal and Image Processing (Fall 2012 - University of Tehran)
- Application of Intelligent Systems in Medicine (Spring 2012 - University of Tehran)
- Signals and Systems (Fall 2011 - University of Tehran)
- Applications of Information Technology in Medicine and Health (Fall 2011 - University of Tehran)
- Principles of Electrical Engineering (Spring 2011 - University of Tehran)
- Communication Systems (Fall 2010, Islamic Azad University, West Tehran Branch)

Industrial Appointments

- Research Manager
DSP Research Center, Tehran, Iran, 2010-2012
 - Blind Channel Coding Recognition
- Research Assistant
Iran Telecommunication Research Center, Tehran, Iran, 2007-2008
 - Channel Coding Design for Broadband Satellite Communications
- Research Assistant/Manager
Nasr Electronic and Communication Research Center, Tehran, Iran, 2005-2012
 - Blind Modulation Recognition
 - Design and Implementation of GSM Monitoring System
 - Design and Implementation of GPRS Monitoring System
- Research Assistant
Resana Afzar Sharif Co., Tehran, Iran, 2003-2004
 - Tropospheric Channel Modeling
 - Radio Data System (RDS)